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In the claims:

Claims 1-29 cancelled.

30. (New) A transport container for keeping frozen material chilled, comprising an insulating chamber; an insulation which is a superinsulation with a coefficient of thermal conductivity λ of ≤ 0.005 W/m K and encloses said insulating chamber; an inner container removably arranged in said insulating chamber, said inner container having at least one chamber for the material and at least one refrigerant chamber which is permanently hermetically sealed; and a refrigerant located in said refrigerant chamber and giving off cold by solid/liquid phase transformation, said refrigerant being a pure organic substance undergoing the phase transformation between solid and liquid state in a temperature range from -15° to -100°C , and having a heat of melting of at least 50 J/ml.

31. (new) A transport container as defined in claim 30; and further comprising a chilling jacket having a jacket chamber which contains a refrigerant with a solid/liquid phase transition in a temperature range from 0 to -15°C ; and an insulating jacket which shields said chilling jacket from outside and has a superinsulation with a coefficient of thermal conductivity λ of ≤ 0.01 W/m K.

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32. (new) A transport container as defined in claim 30, wherein said refrigerant chamber is configured like said chilling chamber in said inner container.

33. (new) A transport container as defined in claim 30, further comprising at least one additional refrigerant container with a refrigerant chamber for arrangement in said insulating chamber, said additional container also having a filling opening which is permanently hermetically sealed after an introduction of a refrigerant.

34. (new) A transport container as defined in claim 33, wherein at least one of said inner container and said additional container is composed of a material selected from the group consisting of high-grade steel, titanium, a titanium alloy, aluminum, and a low-temperature resistant plastic.

35. (new) A transport container as defined in claim 33, wherein said filling opening for the refrigerant is welded closed.

36. (new) A transport container as defined in claim 33, wherein said filling opening for the refrigerant is closed by a stopper.

37. (new) A transport container as defined in claim 36, wherein said stopper is configured as a stopper fitted by heat shrinkage with a press fit.

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38. (new) A transport container as defined in claim 33, wherein said filling opening is closed on an inside by a screw stopper and welded closed on an outside.

39. (new) A transport container as defined in claim 33, wherein said filling opening tapers conically and is closed by a conical stopper.

40. (new) A transport container as defined in claim 36, wherein said stopper is enclosed by a seal of amalgam-forming metal selected from the group consisting of copper, silver and gold.

41. (new) A transport container as defined in claim 40, wherein said seal is configured as a seal which is applied as an electrolytic coating to an element selected from the group consisting of said stopper, a stopper seat, and both.

42. (new) A transport container as defined in claim 33; and further comprising a stopper having a rotary attachment and ground into said filling opening, which is configured as a conical sealing opening, by rotation.

43. (new) A transport container as defined in claim 33, wherein a closure of said filling opening is removed on an outside as far as a machining

surface, which terminates flush with a surface of a housing of said refrigerant chamber.